

Claims

1. In a large round baler equipped with a weighing arrangement to detect the weight of a compressed cylindrical bale, the baler including a main frame supporting side walls defining opposite sides of a baling chamber and a bale-forming arrangement defining a remainder of said baling chamber, an improved weighing arrangement comprising: said baler including at least one bale support element extending transversely across the baling chamber in a location so as to provide support for a bale formed in said baling chamber; and a load sensing device associated with said support element for detecting the force that a cylindrical bale applies to said support element.
2. The large round baler, as defined in claim 1, wherein said at least one support element is mounted for movement relative to the cylindrical bale before and/or during the ejection of a cylindrical bale.
3. The large round baler, as defined in claim 2, wherein a drive is coupled to said at least one support element for effecting selective movement of said support element.
4. The large round baler, as defined in claim 2, wherein said at least one support element is so located in said baling chamber and is so moved that a formed bale rests, at one point of time, at least approximately exclusively on said at least one support element during a movement of the support element.
5. The large round baler, as defined in claim 3, wherein said at least one support element is mounted for pivoting about a horizontal, transverse pivot axis which extends in the vicinity of a central axis of a finished cylindrical bale.
6. The large round baler, as defined in claim 3, wherein said at least one support element is mounted for movement between a bale-forming position, which it occupies during bale formation and in which it is located underneath the cylindrical bale being formed, and a bale ejection position in which the formed cylindrical bale no longer rests on said at least one support element.
7. The large round baler, as defined in claim 6, wherein said bale ejection position of said support element is located so as to be above a rear part of a bale

formed in said baling chamber.

8. The large round baler, as defined in claim 1, wherein said baling chamber includes side walls mounted for being selectively moved outwardly from a bale-forming position; and a wall control arrangement being associated with said walls for automatically moving them apart before the detection of the weight of the cylindrical bale and for subsequently moving them back to said bale-forming position.

9. The large round baler, as defined in claim 3, wherein said baling chamber includes side walls mounted for being selectively moved outwardly from a bale-forming position; and a wall control arrangement being associated with said walls for automatically moving them apart before the detection of the weight of the cylindrical bale and for subsequently moving them back to said bale-forming position; and said wall control arrangement including said drive for said at least one support element.

10. The large round baler, as defined in claim 2, wherein an evaluation arrangement is coupled for receiving information from said load sensing device that can be operated in order to determine the weight of the cylindrical bale on the basis of sensed weight values sent to the evaluation arrangement during the relative movement between the cylindrical bale and the support element during ejection of a completed bale.

11. The large round baler, as defined in claim 2, wherein an evaluation arrangement is coupled for receiving information from said load sensing device; an inclination sensor coupled for sending information to said evaluation arrangement relative to side-to-side inclination of said baler; and said evaluation arrangement being operated to perform corrections of the weight of the cylindrical bale measured, on the basis of signals received from said inclination sensor.

12. The large round baler, as defined in claim 1, wherein said at least one support element includes a roll supported in bearings, free to rotate, whose axis extends parallel to an axis of a cylindrical bale being formed.

13. The large round baler, as defined in claim 1, wherein said at least one support element extends between, and is coupled to, a pair of parallel arms, in turn, coupled to said main frame; and said weighing arrangement including a measurement cell located in each of said parallel arms.